

MINUTES OF THE  
MARICOPA ASSOCIATION OF GOVERNMENTS  
AIR QUALITY TECHNICAL ADVISORY COMMITTEE MEETING

Thursday, April 11, 2002  
MAG Office  
Phoenix, Arizona

MEMBERS PRESENT

Stephen Cleveland, City of Goodyear, Chairman  
Scottsdale: Larry Person

Chandler: Jim Weiss

\*Gilbert: Danielle Typinski

Glendale: Doug Kukino

Mesa: J. Collum Hunter for Christine Zielonka

Phoenix: Gaye Knight

\*Tempe: Tom Moore

\*Citizen Representative: Walter Bouchard

\*Arizona Lung Association: David Feuerherd

Salt River Project: Chris Janick

Southwest Gas Corporation: Brian O'Donnell

\*Arizona Public Service Company: Scott Davis

\*Western States Petroleum Association: Gina Grey

Valley Metro: Bryan Jungwirth

\*Arizona Motor Transport Association: Dave Berry

\*Maricopa County Farm Bureau: Jeannette Fish

\*Arizona Rock Products Association:

Rusty Bowers

Greater Phoenix Chamber of Commerce: Heidi

Koopman

\*Associated General Contractors: David Martin

\*Homebuilders Association of Central Arizona:

Connie Wilhelm-Garcia

\*American Institute of Architects- Central Arizona:

H. Maynard Blumer

Valley Forward: Peter Allard

University of Arizona - Cooperative Extension:

Patrick Clay

Arizona Department of Transportation: Pat Cupell

Arizona Department of Environmental Quality:

Peter Hyde

Maricopa County Environmental Services

Department: Patty Nelson for Jo Crumbaker

Arizona Department of Weights and Measures: Mark

Ellery

Federal Highway Administration: Dennis Mittelstedt

Arizona State University: Judi Nelson

Salt River Pima-Maricopa Indian Community:

Stan Belone for B. Bobby Ramirez

Citizen Representative: David Rueckert

\*Those members were neither present nor represented by proxy.

OTHERS PRESENT

Cathy Arthur, Maricopa Association of  
Governments

Dean Giles, Maricopa Association of  
Governments

Roger Roy, Maricopa Association of Governments

Doug Collins, Maricopa Association of  
Governments

Lindy Bauer, Maricopa Association of Governments

Jean Parkinson, Pinal County Air Quality Control  
District

Ruey-In Chiou, Maricopa Association of  
Governments

1. Call to Order

A meeting of the MAG Air Quality Technical Advisory Committee was conducted on April 11, 2002. Stephen Cleveland, City of Goodyear, Chairman, called the meeting to order at approximately 1:30 p.m.

3. Implementation of the 8-Hour Ozone Standard

This item was taken out of order. Cathy Arthur, Maricopa Association of Governments, presented information from the Environmental Protection Agency (EPA) public meetings on the proposed 8-hour ozone implementation policy. Ms. Arthur presented background information concerning the 8-hour ozone standard promulgated in July 1997 and subsequent court decisions surrounding the standard. A summary description of plan requirements for nonattainment areas from the Clean Air Act Title 1, Part D, Subparts 1 and 2 was provided. She reviewed discussion issues from the April 3, 2002 EPA meeting held in Tempe, including: EPA classification of 8-hour ozone nonattainment areas; transportation conformity; Congestion Mitigation and Air Quality Improvement (CMAQ) Program eligibility; reauthorization of Transportation Equity Act -21 (TEA-21) and CMAQ apportionment; and State-initiated early reduction programs for the 8-hour ozone standard. Ms. Arthur indicated that EPA expects to propose rulemaking on the 8-hour implementation approach during Summer 2002 and finalize rules by mid-2003. She concluded her presentation by mentioning that written comments may be sent to EPA by May 2, 2002 and that more information was available on the EPA website at [www.epa.gov/ttn/rto/ozonetech/o3imp8hr/o3imp8hr.htm](http://www.epa.gov/ttn/rto/ozonetech/o3imp8hr/o3imp8hr.htm).

Bryan Jungwirth, Valley Metro, inquired about the 8-hour ozone attainment/nonattainment boundary and the potential for the designated boundary to include Pinal County. Ms. Arthur replied that the EPA designation of boundaries would occur in mid-2004 and currently there are no exceedances at monitors in Pinal County. Lindy Bauer, Maricopa Association of Governments, added that Pinal County is interested in participating in the voluntary Ozone Flex Program which would result in early reductions of ozone.

Doug Kukino, City of Glendale, asked how input would be provided to EPA and if the Arizona Department of Environmental Quality was collaborating in the input effort. Ms. Bauer responded that ADEQ participates as part of this Committee and is part of the Air Quality Memorandum of Agreement for air quality planning in Maricopa County.

Mr. Cleveland inquired if the region would continue to have a 1-hour ozone nonattainment area boundary as well as a new 8-hour ozone boundary. Ms. Arthur indicated that there could be two different boundaries if both standards are in place at the same time. However, EPA may also revoke the 1-hour standard. Mr. Cleveland asked if the region should implement new measures for early reductions toward reaching attainment prior to designation of the nonattainment area. Ms. Arthur responded that the region may want to delay implementation of new measures until air quality benefits resulting from voluntary measures are known. Mr. Cleveland asked how this impacts the Transportation Improvement Program and if additional changes were needed to the Program to address the new ozone standard. Ms. Arthur indicated that the new ozone standard may affect conformity and CMAQ funding and these could, in turn, impact the TIP.

Gaye Knight, City of Phoenix, indicated she would like to piggyback on any comments being sent to the EPA so that she could stay informed. She noted that there is a perception that the region will violate the 8-hour ozone standard. Ms. Knight inquired what additional control measures are needed to address the 8-hour ozone standard. Ms. Arthur noted that the region already has some of the most stringent control measures in the country. Ms. Arthur mentioned that air quality monitoring data for the 8-hour ozone standard indicates the region is not far from attaining the standard.

Peter Hyde, Arizona Department of Environmental Quality, informed the Committee that monitoring data suggest a clear pattern of between eight and ten sites in Greater Metropolitan Phoenix that exceed the standard. However, a very high percent of 8-hour ozone concentrations are due to transport and background conditions. The highest values in 1998-2001 were 85 parts per billion, and the trend is too close to call at the present time. Ms. Knight asked if there were any new federal standards on the horizon. Ms. Arthur mentioned that clean diesel fuels would be mandated in 2006 and other measures would begin in the near future: Tier 2 standards begin in 2004, heavy duty engine and vehicle standards begin to be phased in starting in 2007, and new EPA emission standards for new non-road engines may be implemented by the end of this decade.

Mr. Cleveland mentioned that this group often does the heavy lifting on technical issues and that early discussions on these issues should be encouraged with members from the Transportation Review Committee and other committees. He said that staff needed to seriously think about engaging other committees regarding control measures that could reduce readings at the monitor. Ms. Arthur noted that this message could be communicated when discussing conformity and CMAQ program issues at committee meetings.

Mr. Cleveland inquired about the future of the CMAQ program. Dennis Mittelstedt, Federal Highway Administration, informed the Committee that CMAQ is being discussed, but there is one additional year for transportation reauthorization to occur. The transportation community, in conjunction with the Metropolitan Planning Organizations, will be providing input into the federal transportation bill. The U.S. Department of Transportation will be seeking input, however the department is just now getting serious about the issues. Mr. Jungwirth indicated that the Federal Highway Administration and Federal Transit Administration support keeping CMAQ in place and MAG transportation staff has been monitoring the issue.

2. Approval of the February 14, 2002 Meeting Minutes

The Committee reviewed the minutes from the February 14, 2002 meeting. Mr. O'Donnell requested a clarification to the minutes for agenda item #10, Air Quality Planning Timeline Update, to state: "Mr. O'Donnell asked why MAG would wait two years to submit the ozone maintenance plan since there is a risk in waiting for the EPA redesignation of the area to attainment status." Mr. O'Donnell moved, and Mr. Jungwirth seconded, and the motion to approve the amended February 14, 2002 meeting minutes carried unanimously.

4. 2002 Conformity Schedule and Processes

Ms. Arthur gave an overview of transportation conformity and highlighted aspects of the Models, Associated Methods, and Assumptions document included in the agenda packet. She briefed the Committee on the horizon years, emission budgets for carbon monoxide, volatile organic compounds, and PM-10, the use of the MOBILE5a emission model, population and employment projections, and the Highway Performance Monitoring System (HPMS) vehicle miles of travel reconciliation factors developed for the conformity analysis. Ms. Arthur presented a tentative schedule for the 2002 conformity analysis.

Mr. Jungwirth inquired if 2000 census data was being used. Ms. Arthur responded that since population and employment projections based on the 2000 census would not be available until late 2002, adopted projections based on the 1995 special census would be used. Mr. Jungwirth asked if a planned vehicle occupancy study for the MAG region will assist air quality modeling. Ms. Arthur noted that the study will assist transportation modeling and since the air quality models use data from the transportation models, this will improve the air quality modeling.

Mr. Hyde asked how comfortable the MAG transportation staff were with the reconciliation factors. Ms. Arthur responded that the urbanized area contains 90 percent of the vehicle miles of travel (VMT) and that the HPMS reconciliation factors reduce the urbanized area VMT by less than one percent. She mentioned that, based on HPMS VMT figures, the transportation models overpredict vehicle miles of travel in the urban donut area, resulting in an overall reduction of approximately five percent.

5. CMAQ Methodologies Workshop

Ms. Arthur briefed the Committee on the CMAQ Methodologies Workshop scheduled for Monday, April 29, 2002 at 9:00 a.m. at the MAG offices. A draft agenda was presented. To start the workshop, she indicated she will be providing an overview of the CMAQ funding and MAG prioritization process and the MAG methodologies for calculating air quality benefits of CMAQ projects. Sierra Research, MAG consultant, will be presenting a review of CMAQ methodologies used by other organizations and recommendations for refining the methodologies used for estimating emission reduction benefits of CMAQ projects.

Mr. Cleveland sought clarification regarding the agenda topic "CMAQ Funding and Prioritization Process". Ms. Arthur indicated that although the workshop is focused on calculating the air quality benefits of CMAQ projects, a review of the current MAG CMAQ process will be provided to indicate the context for the technical evaluation of projects.

6. Update on the Carbon Monoxide and Ozone Maintenance Plans

Ruey-In Chiou, Maricopa Association of Governments, provided an update to the Committee on the Carbon Monoxide and Ozone Maintenance Plans. Ms. Chiou explained that all SIP revisions and conformity analyses are required to use the MOBILE6 emissions model by January 2004. She indicated that the air quality modeling for the Carbon Monoxide Maintenance Plan was being revised

using MOBILE6 and this would ensure consistency between the SIP motor vehicle emissions budget and future transportation conformity analyses. She noted that 2006 will be modeled to provide a budget for conformity purposes and 2015 will be modeled to demonstrate maintenance. The Carbon Monoxide Maintenance Plan is anticipated to be submitted to EPA in October 2002.

Ms. Chiou explained that for the Ozone Maintenance Plan, EPA has required the expansion of the modeling domain and the inclusion of one additional modeling episode in the plan. The expanded modeling domain for the Ozone Maintenance Plan was presented. She noted that comments received from EPA included substantial additional analyses on model validations. Ms. Chiou added that 2006 would be modeled to provide a budget for conformity purposes and 2015 will be modeled to demonstrate maintenance. The Ozone Maintenance Plan is anticipated to be submitted to EPA in December 2003.

Mr. O'Donnell requested an explanation of the MOBILE6 model requirement. Ms. Chiou indicated that there is a grace period of two years before MOBILE6 is required. She informed the Committee that SIP budgets were currently being developed using MOBILE6 to eliminate any differences in how emissions from air quality models are estimated, since future transportation conformity analyses after January 2004 have to be conducted using MOBILE6. Ms. Bauer indicated that although MOBILE6 is not required to be used for 24 months, MAG is moving to use the model now since EPA may take 18 months to approve a new motor vehicle emissions budget if EPA had already approved the plan.

Mr. Kukino asked if the MOBILE6 model estimates higher pollutant concentrations. Ms. Arthur informed the Committee that generally, MOBILE6 emissions are higher than MOBILE5a emissions for carbon monoxide and that MOBILE6 emissions are lower than MOBILE5a emissions for volatile organic compounds and nitrogen oxides. Mr. Mittelstedt indicated that MOBILE6 is intended to reflect cleaner exhaust from newer vehicles.

Larry Person, City of Scottsdale, inquired about the 2006 interim budget and the likelihood of it being challenged. Ms. Arthur noted that the year 2006 was selected to be consistent with the attainment year for PM-10 and the term "interim" would be eliminated from further descriptions. David Rueckert, citizen representative, asked if the worst case is being modeled. Ms. Chiou responded that the emission models are being applied to model the worst case days for each pollutant.

## 7. Legislative Update

Ms. Bauer provided an update of proposed air quality legislation, specifically HB 2585, to the Committee. She indicated that the mobile source provisions in Section 309 are extremely stringent and would have set a standard so low, there was concern that the standard could not be met. She mentioned that provisions in an amendment to HB 2585 would permit the State to go with the Section 308 or Section 309 approach. However, if mobile sources were found to be "significant" in any Class I area, the Section 308 approach would be used. Ms. Bauer noted that the status of the bill was reported to the MAG Regional Council on March 20, 2002 and the position on the bill was changed to neutral.

8. Call to the Public

An opportunity was provided to members of the public to address the MAG Air Quality Technical Advisory Committee. No comments were presented.

9. Call for Future Agenda Items

Mr. Cleveland indicated the next meeting of the Committee is tentatively scheduled for May 30, 2002, if necessary. A presentation was requested on the recent award given by the Environmental Protection Agency to the City of Scottsdale. A request was also made for a presentation by the Maricopa County Environmental Services Department on Rule 200 regarding emergency generation and a status report on enforcement of Rule 310.